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☐ 1: Gut 1988 Jan;29(1):41-3

Hydrophobic adhesin of E coli in ulcerative colitis.

Burke DA, Axon AT.

Gastroenterology Unit, General Infirmary, Leeds.

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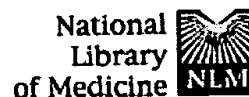
Pathogenic E coli have adhesive properties which are mirrored by an increase in their surface hydrophobicity. E coli isolated from patients with ulcerative colitis possess a mannose resistant adhesin similar to that found in pathogenic E coli. In this study 42 E coli isolates from patients with colitis have been compared with 15 from controls to assess hydrophobicity and cellular adherence. The salting out method and the buccal epithelial cell technique were used respectively. E coli isolated from colitics are significantly more hydrophobic than control E coli (p less than 0.001). The salting out score correlates negatively with the buccal epithelial cell adhesion index. When E coli are grown at 18 degrees C both properties are temporarily reduced suggesting that they are related to each other. The salting out method clearly differentiates between E coli isolated from colitics and controls, and offers a simple method of detecting adhesive E coli in inflammatory bowel disease.

PMID: 2893760 [PubMed - indexed for MEDLINE]

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☐ 1: FEMS Immunol Med Microbiol 1999 Nov;26(2):137-42

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ELSEVIER SCIENCE
FULL-TEXT ARTICLE

The effect of probiotic bacteria on the adhesion of pathogens to human intestinal mucus.

Tuomola EM, Ouwehand AC, Salminen SJ.

Department of Biochemistry and Food Chemistry, University of Turku, FIN-20014, Turku, Finland. elina.tuomola@utu.fi

Human intestinal glycoproteins extracted from faeces were used as a model for intestinal mucus to investigate adhesion of pathogenic *Escherichia coli* and *Salmonella* strains, and the effect of probiotics on this adhesion. S-fimbriated *E. coli* expressed relatively high adhesion in the mucus model, but the other tested pathogens adhered less effectively. Probiotic strains *Lactobacillus* GG and *L. rhamnosus* LC-705 as well as a *L. rhamnosus* isolated from human faeces were able to slightly reduce S-fimbria-mediated adhesion. Adhesion of *S. typhimurium* was significantly inhibited by probiotic *L. johnsonii* LJ1 and *L. casei* Shirota. *Lactobacillus* GG and *L. rhamnosus* (human isolate) increased the adhesion of *S. typhimurium* suggesting that the pathogen interacts with the probiotic.

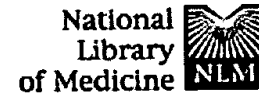
MeSH Terms:

- Bacterial Adhesion*
- *Escherichia coli*/physiology
- Feces/chemistry
- Glycoproteins/chemistry
- Human
- Intestinal Mucosa/microbiology*
- Intestinal Mucosa/chemistry
- *Lactobacillus**
- Mucus/physiology*
- Mucus/chemistry
- Probiotics/pharmacology*
- *Salmonella enteritidis*/physiology
- *Salmonella typhimurium*/physiology
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Substances:

- Probiotics
- Glycoproteins

PMID: 10536300 [PubMed - indexed for MEDLINE]



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Methods Enzymol. 1995;253:528-36. No abstract available.
PMID: 7476415 [PubMed - indexed for MEDLINE]

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[Study of the attachment of Mycoplasma pneumoniae using enzyme-linked immunosorbent assay]
Kansenshogaku Zasshi. 1988 Apr;62(4):363-75. Japanese. No abstract available.
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J Immunoassay. 2000 May-Aug;21(2-3):165-209. Review. No abstract available.
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Berl Munch Tierarztl Wochenschr. 1981 Jan 15;94(2):36-7. German. No abstract available.
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Methods Mol Biol. 1994;32:461-6. Review. No abstract available.
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Development of an enzyme-linked immunosorbent assay method for typing and quantitation of Klebsiella pneumoniae lipopolysaccharide: application to serotype O1.
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Competitive enzyme-linked immunosorbent assay for biotin.
Methods Enzymol. 1997;279:321-6. Review. No abstract available.
PMID: 9211284 [PubMed - indexed for MEDLINE]

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Clin Lab Sci. 1991 Nov-Dec;4(6):338-9. No abstract available.
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Biochem Soc Trans. 1994 May;22(2):141S. No abstract available.
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